

**Cc:** Hickman, Joseph M[Joseph.M.Hickman@wv.gov]; Bluedorn, Donald[DBluedorn@babstcalland.com]; Mandirola, Scott G[Scott.G.Mandirola@wv.gov]; Bandy, Jeremy W[Jeremy.W.Bandy@wv.gov]; Musser, Cynthia J[Cynthia.J.Musser@wv.gov]; Rusty.t.joins@wv.gov[Rusty.t.joins@wv.gov]; [Ex. 4 - CBI] Blankenship, Anne[ABlankenship@babstcalland.com]; PKV@Pietragallo.com[PKV@Pietragallo.com]  
**To:** [Ex. 4 - CBI]  
**From:** Dorsey, Mike H  
**Sent:** Wed 2/5/2014 1:20:12 AM  
**Subject:** Re: Freedom Industries - Ongoing Water Quality Sampling and IRM Measures

All,

With respect to getting a mom-detect sample from the off-site ditch, I'm not sure that is possible any longer. Since Rusty and the Natl. Guard obtained that sample there has been a tremendous amount of work in that area from road construction to the tromping around of the FBI. I'm pretty sure that there has been quite a bit of opportunity for cross contamination.

Mike

Sent from my iPhone

On Feb 4, 2014, at 5:22 PM, [Ex. 4 - CBI] wrote:

Joe,

With respect to the first point, Don's email specified non-detect before diversion as this is what we discussed. Also, we will implement routine sampling of the diverted water once we can begin diverting. I think the specifics of the routine sampling program should be discussed at the 10:30 AM meeting tomorrow to gain input from each attendee. My suggestion is to provide a time-specific limit between samples while also considering a provision to collect additional samples when significant rainfall or snow melt result in an increase from baseline runoff flow. Again, this can be discussed tomorrow and documented in a post-meeting email to nail down the routine sampling protocol.

With respect to the second point, 1) the sample was collected today and delivered to the lab WV DEP was using due to their closer location and to obtain results ASAP. 2) Clean Harbors has prepared the booms around the portion of the bench where we have our collection trench/pond. 3) The pipe has been fitted with a reducer in order to place the vacuum line into the upstream portion of the pipe and in the process buy us an addition foot or so of river elevation rise before pumping becomes impossible to do (when/if the river rises above the pipe inlet elevation).

The vacuum line can be inserted within minutes, but we continue to pump from the trench and pond, and will continue to do so until the tarps are in place and the vacuum line is in place and hooked to the truck. Once this is in place, the trench and pond will be pumped empty. 4) Pumping of water within the secondary containment area is occurring continuously near the culvert to minimize the amount of water that can flow to the cobble fill and down to the river. Additional efforts will be taken to prevent runoff from entering the sumps and/or other holes in the concrete. 5) We are still waiting on sample results. We want to divert as soon as we can once we confirm the result is non-detect. 6) The crew is currently working on placing a tarp over the cobble fill area along the slope.

Rob

**Ex. 4 - CBI**

/ Senior Project Manager

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**From:** Hickman, Joseph M [<mailto:Joseph.M.Hickman@wv.gov>]

**Sent:** Tuesday, February 04, 2014 4:51 PM

**To:** Bluedorn, Donald

**Cc:** Mandirola, Scott G; Bandy, Jeremy W; Musser, Cynthia J; Dorsey, Mike H;

[Rusty.t.joins@wv.gov](mailto:Rusty.t.joins@wv.gov); **Ex. 4 - CBI** Blankenship, Anne; [PKV@Pietragallo.com](mailto:PKV@Pietragallo.com)

**Subject:** Re: Freedom Industries - Ongoing Water Quality Sampling and IRM Measures

Don,

For clarification, the limit we expect to see in the sump water before diversion is an option is "non-detect". We also require a plan and schedule for routine monitoring of any diverted flows to assure that they remain clean.

The report I just had from Cindy Musser at the site indicated that the actions you have described in item 2 are not moving forward with the dispatch and organization that we expect and that the impending weather demands. It appears that there is not much of a sense of urgency about implementing these measures.

Joe Hickman

Asst. Chief Inspector

WVDEP/Environmental Enforcement

On Feb 4, 2014, at 16:34, "Bluedorn, Donald" <[DBluedorn@babstcalland.com](mailto:DBluedorn@babstcalland.com)> wrote:

Set forth below are a couple of confirmations regarding ongoing Water Quality Sampling and IRM activities at the Freedom Industries site.

1. As **Ex. 4 - CBI** and Joe Hickman discussed yesterday, we are going to take a resample of the Upstream Culvert point. The original sample was taken shortly after Diversified had been pumping from the sump and the only flow present was shallow groundwater, which really does not represent what we would like to divert. Now that snow/ice have melted, and we have surface water runoff, which is what we want to divert, we will take another sample. The original sample had a detection of MCHM just above the reporting limit which could have come from two possible source. First, it could have come from the vacuum line they were using to pump, with was routinely transferred from inside the wall to outside the wall based on where they could recover the most water. This is a likely source of cross contamination and the levels detected correlate to just that. Second, since they were pumping outside the wall, they were likely pulling some gradient back to them from inside the wall and this could have resulted in MCHM showing up temporarily until the pump was removed and natural east to west flow direction resumed. In either scenario, the sample should be retaken so that we can determine how to best manage runoff that collects east of the secondary containment wall, and that's what we plan to do today.

2. As **Ex. 4 - CBI** discussed with Joe Hickman, to prepare for tonight's forecasted rain and the river crest (which may overtake our open collection

trench) we are doing the following:

- We have been preparing for this since yesterday and as a result have a second layer of containment booms in place at the bench. These will become operational as soon as water in the river rises to near the level of our bench and remain in place until the river recedes and we can return to pumping. Obviously, we cannot continue to pump water from the trench if the river overtakes it.
- To buy us an additional foot or so of river level rise while we can still pump water from the pipe entering the trench, we have secured the end of the pipe with a fitting through which we can insert our vacuum line and seal the pipe discharge off from water which may rise above it. This will allow us to continue to pump water from the pipe unless and until the river rises higher than the pipe inlet. At this point, we will need to rely on our booms for efforts underway at the bench area.
- To control the amount of water entering the cobble and to minimize the migration of residual product and water down the cobble fill portion of the slope, efforts are underway to control runoff from entering this portion of the secondary containment area coupled with pumping to keep the shallow groundwater level minimized through the rainfall event.
- If we receive sample results before the close of business today on our runoff from upstream of the site that shows non-detect, we will move to divert runoff around the site and to the river. This will also help minimize the amount of water recharging the shallow water table which eventually flows to the cobble material.
- As requested by onsite DEP personnel, we will place a tarp over the cobble portion of the slope to minimize the amount of direct rainfall infiltrating the cobble.

Thanks,

Don

<b>Donald C. Bluedorn II</b> Attorney-at-Law <a href="mailto:dbluedorn@babstcalland.com">dbluedorn@babstcalland.com</a>	Two Gateway Center Pittsburgh, PA 15222 <b>Direct</b> 412.394.5450
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